

COMPLETE LISTING OF THE CLAIMS

The following lists all of the claims that are or were in the above-identified patent application. The status identifiers respectively provided in parentheses following the claim numbers indicate the current statuses of the claims.

Claims 1-16 (Canceled)

17. (Currently Amended) The method of ~~claim 16~~ claim 38, further comprising using the points in the approximate volume to construct a mesh of polygons that collectively approximate the surface of the object.

18. (Original) The method of claim 17, further comprising mapping a texture from the images to the polygons.

Claims 19-37 (Canceled)

38. (Currently Amended) The An image processing method of claim 16, further comprising:

(a) analyzing a set of images containing an object and a background to identify for each image a silhouette of an object and locations in the image of pattern points in the background;

(b) for each image, using the locations of the pattern points to determine a transform from three-dimensional coordinates to two-dimensional coordinates in the image;

(c) transforming three-dimensional coordinates of a set of points in a candidate volume to the two-dimensional coordinates of a first of the images;

(d) identifying an approximate volume of the object as containing the points that the transform maps onto the silhouette of the object in the first of the images;

(e) setting a current candidate volume equal to the approximate volume;

(f) transforming three-dimensional coordinates of a set of points in the current candidate volume to the two-dimensional coordinates in a next of the images; and

(g) identifying the approximate volume of the object as a minimal volume containing the points that transform onto the silhouette of the object in the next of the images.

39. (Currently Amended) The method of claim 38, further comprising repeating the steps (e), (f), and (g) of claim 38 one or more times.